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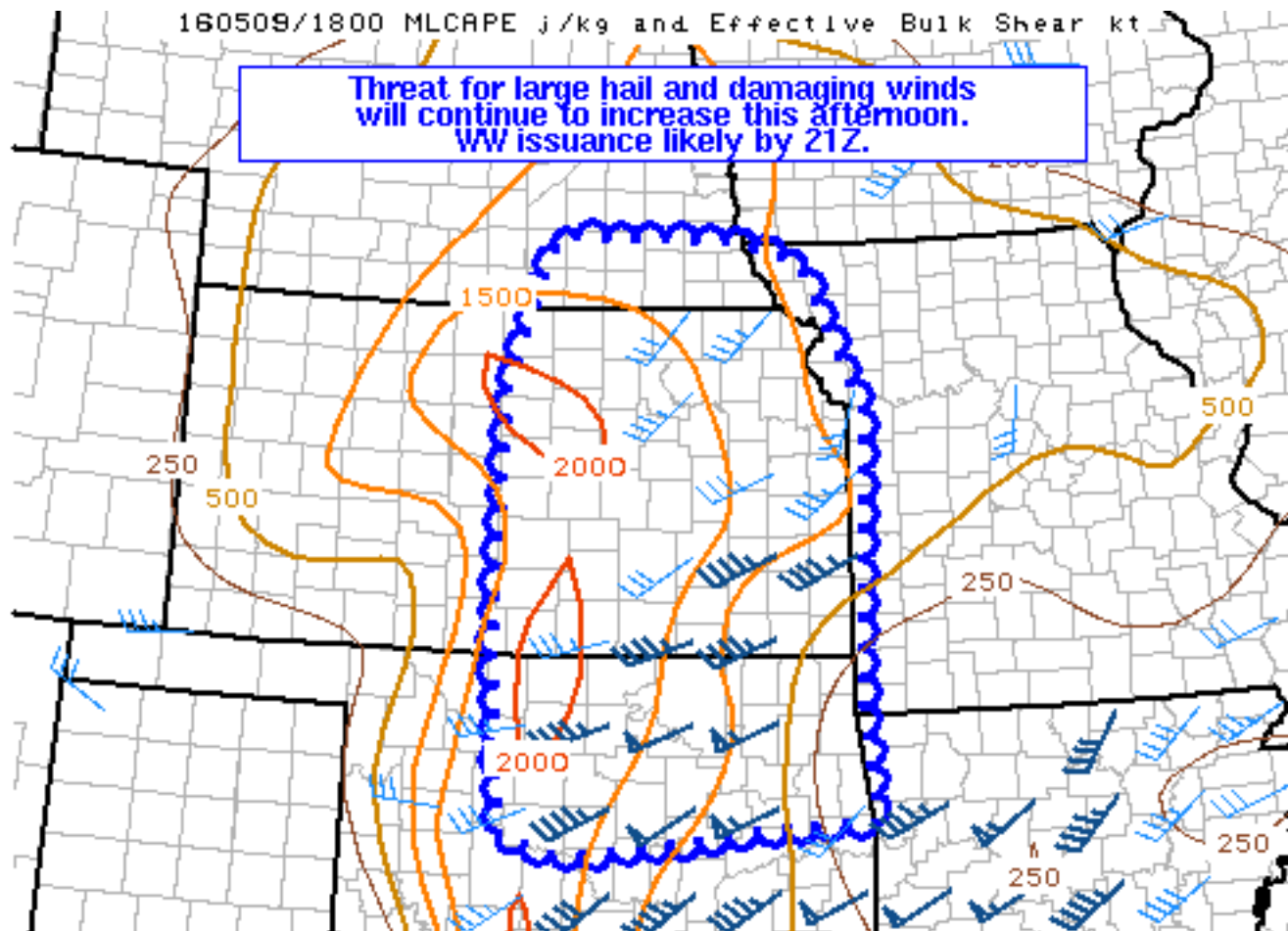
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MESOSCALE DISCUSSION 0568

NWS STORM PREDICTION CENTER NORMAN OK

0146 PM CDT MON MAY 09 2016

AREAS AFFECTED...PORTIONS OF CNTRL/ERN OK...CNTRL/ERN KS...SERN
NEB...AND FAR WRN MO

CONCERNING...SEVERE POTENTIAL...WATCH LIKELY

VALID 091846Z - 091945Z

PROBABILITY OF WATCH ISSUANCE...95 PERCENT

SUMMARY...A THREAT FOR LARGE HAIL AND DAMAGING WINDS WILL CONTINUE
TO INCREASE THIS AFTERNOON. WW ISSUANCE IS LIKELY SOON.

DISCUSSION...LARGE-SCALE FORCING FOR ASCENT ASSOCIATED WITH A
VORTICITY MAXIMUM/SHORTWAVE TROUGH AT MID LEVELS ACROSS SWRN KS WILL
OVERSPREAD THE MCD AREA THROUGH THE EVENING HOURS. IN THE WAKE OF
EARLIER PRECIPITATION THAT HAS SINCE MOVED EWD ACROSS MO...DIURNAL
HEATING HAS ALLOWED FOR DESTABILIZATION TO OCCUR ACROSS MUCH OF



CNRTL/ERN OK/KS INTO SWRN NEB AHEAD OF A SFC COLD FRONT/DRYLINE AS OF 1830Z. LATEST VISIBLE SATELLITE IMAGERY INDICATES CUMULUS BUILDING ALONG THE DRYLINE IN NWRN OK/S-CNTRL KS...AND CONVECTIVE INITIATION WILL LIKELY OCCUR IN THE NEXT HOUR OR TWO. RAP FORECAST SOUNDINGS ACROSS THIS REGION SUGGEST MLCAPE AROUND 1500-2000 J/KG WILL BE COMMON WITH STEEP MID-LEVEL LAPSE RATES OF 7.5-8.5 DEG C/KM. AN 18Z OBSERVED SOUNDING FROM OUN CONFIRMS RAP FORECAST IS REASONABLE. ALTHOUGH LOW-LEVEL WINDS ARE NOT FORECAST TO BE OVERLY STRONG...SUFFICIENT VEERING/STRENGTHENING WINDS WITH HEIGHT WILL SUPPORT SUPERCELL STRUCTURES...WITH AN ATTENDANT THREAT FOR LARGE HAIL AND DAMAGING WINDS. SOME OF THE HAIL COULD BE VERY LARGE /IN EXCESS OF 2 INCHES/ GIVEN THE FAVORABLE LAPSE RATES AND INSTABILITY/SHEAR COMBINATION. WITH INSTABILITY WEAKENING WITH NWD EXTENT INTO SWRN NEB...IT IS NOT ENTIRELY CLEAR HOW FAR N A SEVERE THREAT WILL DEVELOP. FINALLY...AN ISOLATED TORNADO OR TWO WILL BE POSSIBLE...ALTHOUGH MORE LIMITED LOW-LEVEL MOISTURE AND WEAKER LOW-LEVEL WINDS COMPARED TO LOCATIONS FURTHER S SUGGEST THE OVERALL TORNADO THREAT MAY BE RELATIVELY LOW.

..GLEASON/HART.. 05/09/2016

ATTN...WFO...SGF...EAX...TSA...OAX...TOP...ICT...OUN...GID...
DDC...

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